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(54) Title: STRENGTHENED CERAMIC RESTORATION

(57) ~~Abstract:~~ The present invention relates to a process for the preparation of a full-ceramic dental restoration, comprising heat pressing of a tooth coloured pressing glass on a fully or partially supporting structure of yttria doped tetragonal zirconia (YTZP), comprised of yttria doped tetragonal zirconia ceramic having a grain size, as measured by the linear intercept method, of less than 0.6 µm, wherein the pressing glass has a thermal expansion coefficient (TEC) of between 9.0 and 11.0 µm/m.K (measured in the range of from 25 to 500°C) and wherein the pressing glass has a pressing temperature of between 750 and 1000°C. In a further aspect, the invention relates to a full-ceramic dental restoration, comprising a fully or partially supporting structure of yttria doped tetragonal zirconia (YTZP) and a heat pressed tooth coloured pressing glass, which restoration is modelled to be in occlusal contact with opposing teeth and in mesio-distal contact with neighbouring teeth.

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